



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Advertisement for Bids for 48 Helmets with Face Shield for the Fire Department

MEETING DATE: June 21, 1995

PREPARED BY: Fire Chief

RECOMMENDED ACTION: That the City Council authorize the advertisement for bids for 48 Model 1010 fiberglass reinforced helmets with face shield, manufactured by Cairns & Brother, Inc., Clifton, New Jersey. (Product Information Sheet is attached).

BACKGROUND INFORMATION: These helmets are recommended for purchase for several reasons. The composite construction and traditional design offer superior frontal, rear neck, and ear protection from falling debris, while the temperature-resistant safety shield offers face and eye protection in compliance with OSHA requirements.

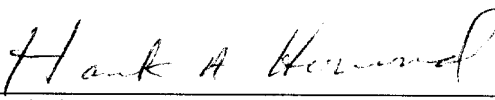
Further, Cairns helmets are in use in the City of Stockton and in both Woodbridge and Mokelumne Fire Districts, and discussion with Stockton officials indicates that the use of Cairns helmets has resulted in reduction of the number of head injuries inflicted by falling debris.

Finally, many of the Lodi Fire Department's helmets are over 25 years old, and are not in compliance with CAL-OSHA standards.

Cairns has provided the names of three California distributors who can submit bids for these helmets.

FUNDING: Funds are available in the Fire Department's 10.0-201.01-356 Account.
Estimated Cost: \$8,500.00

BID OPENING: July 6, 1995



Hank Howard, Fire Chief

APPROVED: _____



THOMAS A. PETERSON
City Manager

STANDARD FEATURES:

HELMET SHELL

The Classic shell is through color molded of long fibered fiberglass encapsulated in high-temperature resistant thermoset resin.

- Protective aluminum cored brim edging with nickel plated D and stainless steel clip hanger.
- Attached brass front piece holder to accommodate an optional 6" fire department leather front piece. Front bracket included.
- Dimensions: length 15 1/2", width 12", crown depth 6".
- Colors: Supplied in four basic colors black, yellow, white and red. Orange and blue are available on special order, please contact the factory.

THE CAIRNS IMPACT CAP

The Cairns patented M602 Impact Cap dramatically increases the levels of protection where you need it most. Made of high temperature resistant rigid urethane foam, it is thicker at the sides for superior protection against side impact and penetration.

- Impact cap is field removable for periodic inspection of the foam's integrity
- Provides attachment of the Cairns ratchet and liner, as well as a six-way overhead webbing suspension system

SIX-WAY SUSPENSION SYSTEM

Cairns' six-way overhead strap suspension system reduces shock transmission at the top of the helmet while providing a comfortable and deep, snug fit.

- Helmet weight is evenly spread over the liner and overhead strap suspension which allows for unmatched comfort.
- Three fixed 3/4" nylon web overhead straps mounted at six points provide a cradled fit.

SYNERGISTIC STRAP-LOCK SYSTEM

Six-way overhead straps are attached directly to the impact cap by means of Cairns Strap-Lock ring.

- Ring integrates and amplifies the natural shock-absorbing qualities of the foam liner with those of the suspension straps.
- Provides greater range of shock attenuation and energy dispersion than systems where straps attached to helmet shells or impact liner sockets.

SATEEN CUSHION LINER

Sateen cotton liner is sewn to a foam padded, high density polyethylene headband and joined at the top by an adjustable lace to form a cradle which provides unmatched depth adjustment/flexibility.

CAIRNS RATCHET-SIZING ADJUSTMENT SYSTEM

Custom fits head liner system in 1/8" increments; deep nape, and improved mechanism.

- Adjustment knob accommodates most head sizes with a short, clockwise turn to tighten or a counter-clockwise turn to loosen
- Conforms to your head in just seconds with or without S.C.B.A. or protective hoods.

CAIRNS "DENVER CONFIGURATION" NOMEX CHINSTRAP

Provided with both a postman's slide and a quick release buckle it provides for true one hand adjustment and ease of donning and doffing.

- The postman's slide, located on the right hand side of the head, for quick adjustments of the chinstrap
- The lime-yellow colored quick-release buckle, located on the left side of the head, for two section operation of the chinstrap when donning or doffing over SCBA.
- Velcro stowage eliminates the loose "tail" end

CAIRNS SHELL RELEASE™

A critical design feature to eliminate the danger of being hung up by your helmet should you become entangled or fall through an opening; it releases

the shell but retains the impact liner and earlaps on your head so that you have some level of protection.

- Improved combined Impact Cap/retention system achieves a predictable 75lb. shell-releasing action should your helmet shell become lodged or hung up.
- Eliminates the fear of being hung up by your chinstrap so that the chinstraps may be worn with confidence.

JUMBO EAR AND NECK PROTECTION

Standard Nomex ear/neck™ protection measures 18" by 6 1/2" to provide a full measure of coverage.

- Outer shell of 4.5 oz. per sq. yd. Nomex, lined with flame resistant cotton flannel for comfort.
- Attached to the impact liner by hook and pile fasteners for ease of removal and cleaning without disassembly of the helmet liner or suspension.

FACESHIELD

The standard faceshield is the wrap-around high performance, high temperature resistant TUFFSHIELD™ lens mounted to the helmet with high temperature resistant, glass fiber reinforced nylon pivot bracket assemblies a handwheel that provides retention and tension. This allows the lens to be set at any angle, raised or lowered, a crescent locking washer retains the handwheel to the pivot bracket.

TUFFSHIELD™ LENS FEATURES

- High temperature resistant, high performance thermoplastic lens.
- Dimensions 18" x 4 1/2" x 0.145" .005" thick.
- Hard-coated exterior and permanently anti-fog treated on its interior surface.
- Exceeds abrasion and impact resistance requirements for Project Fires' P.E.P.S. and NFPA, USFA and USFA/NASA 1979.

HIGH-VISIBILITY

- Unique high-visibility tetrahedron shaped trim for day/night visibility.

CAIRNS 1010 PERFORMANCE REQUIREMENTS

- Exceeds NFPA 1972 latest revision.
- Exceeds US-OSHA (CFR 1910) NBSIR-1977
- Meets Cairns' extended performance criteria for head protection.

OPTIONS

CAIRNS LINER SYSTEMS

Alternate liners such as the LNSW/LRP or sweatband liner are available. Additional protective hoods such as Cairns winter liners, Pbi earlaps, Cliff Reed or Balaclava Hoods may be ordered.

FRONTPIECES

Authentic Cairns fire department 6" leather identification frontpieces are available in custom designs.

For complete parts listing and technical performance information, call Cairns at (201) 473-5867 or any of the many authorized Cairns distributors in your area.

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Cairns & Brother

We Make Personal Protective Equipment
As If Our Lives Depend On It.

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